

**IN THE UNITED STATES  
PATENT AND TRADEMARK OFFICE**

**Declaration and Power of Attorney**

As a below named inventor, I hereby declare that:

My residence, post office address and citizenship are as stated below next to my name.

I believe I am an original, first and joint inventor of the subject matter which is claimed and for which a patent is sought on the invention entitled **System Comprising Optical Semiconductor Waveguide Device** the specification of which is attached hereto.

I hereby state that I have reviewed and understand the contents of the above identified specification, including the claims, as amended by an amendment, if any, specifically referred to in this oath or declaration.

I acknowledge the duty to disclose all information known to me which is material to patentability as defined in Title 37, Code of Federal Regulations, 1.56.

I hereby claim foreign priority benefits under Title 35, United States Code, 119 of any foreign application(s) for patent or inventor's certificate listed below and have also identified below any foreign application for patent or inventor's certificate having a filing date before that of the application on which priority is claimed:

None

I hereby claim the benefit under Title 35, United States Code, 120 of any United States application(s) listed below and, insofar as the subject matter of each of the claims of this application is not disclosed in the prior United States application in the manner provided by the first paragraph of Title 35, United States Code, 112, I acknowledge the duty to disclose all information known to me to be material to patentability as defined in Title 37, Code of Federal Regulations, 1.56 which became available between the filing date of the prior application and the national or PCT international filing date of this application:

None

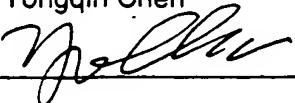
I hereby declare that all statements made herein of my own knowledge are true and that all statements made on information and belief are believed to be true; and further that these statements were made with the knowledge that willful false statements and the like so made are punishable by fine or imprisonment, or both, under Section 1001 of Title 18 of the United States Code and that such willful false statements may jeopardize the validity of the application or any patent issued thereon.

I hereby appoint the following attorney(s) with full power of substitution and revocation, to prosecute said application, to make alterations and amendments therein, to receive the patent, and to transact all business in the Patent and Trademark Office connected therewith:

Thomas J. Bean	(Reg. No. 44528)
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Please address all correspondence to the Docket Administrator (Rm. 3C-512), Lucent Technologies Inc., 600 Mountain Avenue, P. O. Box 636, Murray Hill, New Jersey 07974-0636. Telephone calls should be made to Scott Rittman by dialing 908-582-3258.

Full name of 1st joint inventor: Yongqin Chen

Inventor's signature  Date 6-30-2000

Residence: Holmdel, Monmouth County, New Jersey

Citizenship: China

Post Office Address: 17 Dora Lane  
Holmdel, New Jersey, 07733

Full name of 2<sup>nd</sup> inventor: William Larry Wilson

Inventor's signature William L. Wilson Date 6/30/2000

Residence: Somerville, Somerset County, New Jersey

Citizenship: United States of America

Post Office Address: 130 West Cliff St  
Somerville, New Jersey, 08876



**UNITED STATES DEPARTMENT OF COMMERCE  
Patent and Trademark Office**

ASSISTANT SECRETARY AND COMMISSIONER  
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SEPTEMBER 13, 2000

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DOCKET ADMINISTRATOR  
SCOTT J. RITTMAN  
ROOM 3C-512  
600 MOUNTAIN AVENUE, P.O. BOX 636  
MURRAY HILL, NEW JERSEY 07974-0636

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RECORDATION DATE: 06/30/2000

REEL/FRAME: 010940/0015  
NUMBER OF PAGES: 4

BRIEF: ASSIGNMENT OF ASSIGNOR'S INTEREST (SEE DOCUMENT FOR DETAILS).

ASSIGNOR:  
CHEN, YONGQIN

DOC DATE: 06/30/2000

ASSIGNOR:  
WILSON, WILLIAM LARRY

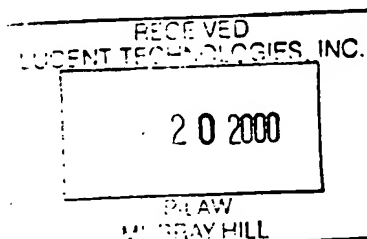
DOC DATE: 06/30/2000

ASSIGNEE:  
LUCENT TECHNOLOGIES INC.  
600 MOUNTAIN AVENUE, P.O. BOX 636  
MURRAY HILL, NEW JERSEY 07974-0636

SERIAL NUMBER: 09608639  
PATENT NUMBER:

FILING DATE: 06/30/2000  
ISSUE DATE:

SHIRLIE SIMON, EXAMINER  
ASSIGNMENT DIVISION  
OFFICE OF PUBLIC RECORDS



07-27-2000

U.S. DEPARTMENT OF COMMERCE  
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1 SHEET

6.30.00

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To the Honorable Commissioner of Patents and Trademarks: Please record the attached original documents or copy thereof.

<b>1. Name of conveying party(ies):</b>  <b>Yongqin Chen</b> <b>William Larry Wils n</b>  Additional name(s) of conveying party(ies) attached? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		<b>2. Name and address of receiving party(ies):</b>  Name: <b>Luc nt Technolog i s Inc.</b>  Internal Address: _____  <b>3. Nature of conveyance:</b>  <input checked="" type="checkbox"/> Assignment <input type="checkbox"/> Merger  <input type="checkbox"/> Security Agreement <input type="checkbox"/> Change of Name  <input type="checkbox"/> Other  Execution Date: <b>June 30, 2000</b>	
<b>4. Application number(s) or patent number(s):</b>  If this document is being filed together with a new application, the execution date of the application is: : <b>June 30, 2000</b>  A. Patent Application No.(s) B. Patent No. (s)  Additional numbers attached? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		<b>5. Name and address of party to whom correspondence concerning document should be mailed:</b>  Name: <b><u>Docket Administrator</u></b> Internal Address: <b><u>Room 3C-512</u></b> Street Address: <b><u>600 Mountain Avenue</u></b>  <b><u>P. O. Box 636</u></b>  City: <b><u>Murray Hill</u></b> , State: <b><u>New Jersey</u></b> , Zip: <b><u>07974-0636</u></b>	
<b>6. Total number of applications and patents involved: <u>1</u></b>		<b>7. Total fee (37 CFR 3.41) \$ <u>\$40.00</u></b>  <input type="checkbox"/> Enclosed  <input checked="" type="checkbox"/> Authorized to be charged to deposit account	
<b>8. Deposit account number: <u>12-2325</u></b>  (Attach duplicate copy of this page if paying by deposit account)			

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<b>9. Statement and signature.</b> <i>To the best of my knowledge and belief, the foregoing information is true and correct and any attached copy is a true copy of the original document.</i>		
<b><u>Scott J. Rittman</u></b> <b><u>Reg. No. 39010</u></b>		<b><u>June 30, 2000</u></b>
<b>Name of Person Signing</b>	<b>Signature</b>	<b>Date</b>
<b>Total number of pages including cover sheet, attachments, and document: 4</b>		

Mail documents to be recorded with required cover sheet information to:  
Commissioner of Patents & Trademarks, Box Assignments  
Washington, D. C. 20231

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46.00 CH

## ASSIGNMENT AND AGREEMENT

For value received, we, Yongqin Chen, of Holmdel in the County of Monmouth and the State of New Jersey, and William Larry Wilson, of Somerville in the County of Somerset and the State of New Jersey, hereby sell, assign and transfer to Lucent Technologies Inc., a corporation of the State of Delaware, having an office at 600 Mountain Avenue, Murray Hill, New Jersey, 07974-0636, U.S.A. and its successors, assigns and legal representatives, the entire right, title and interest, for the United States of America, in and to certain inventions related to **System Comprising Optical Semiconductor Waveguide Device** described in an application for Letters Patent of the United States, executed by us of even date herewith, and all the rights and privileges in said application and under any and all Letters Patent that may be granted in the United States for said inventions; and we also concurrently hereby sell, assign and transfer to Lucent Technologies Inc. the entire right, title and interest in and to said inventions for all countries foreign to the United States, including all rights of priority arising from the application aforesaid, and all the rights and privileges under any and all forms of protection, including Letters Patent, that may be granted in said countries foreign to the United States for said inventions.

We authorize Lucent Technologies Inc. to make application for such protection in its own name and maintain such protection in any and all countries foreign to the United States, and to invoke and claim for any application for patent or other form of protection for said inventions, without further authorization from us, any and all benefits, including the right of priority provided by any and all treaties, conventions, or agreements.

We hereby consent that a copy of this assignment shall be deemed a full legal and formal equivalent of any document which may be required in any country in proof of the right of Lucent Technologies Inc. to apply for patent or other form of protection for said inventions and to claim the aforesaid benefit of the right of priority.

We request that any and all patents for said inventions be issued to Lucent Technologies Inc. in the United States and in all countries foreign to the United States, or to such nominees as Lucent Technologies Inc. may designate.

We agree that, when requested, we shall, without charge to Lucent Technologies Inc. but at its expense, sign all papers, and do all acts which may be necessary, desirable or convenient in connection with said applications, patents, or other forms of protection.

  
Yongqin Chen


Date: 6-30-2000

United States of America )

State of New Jersey ) ss.:

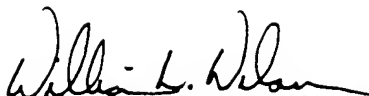
County of Union )

On this 30<sup>th</sup> day of June, 2000, before me personally came, Yongqin Chen to me known to be the individual described in and who executed the foregoing instrument, and acknowledged execution of the same.

  
Notary Public

**SHEILA R. COLE**  
**A NOTARY PUBLIC OF NEW JERSEY**  
**My Commission Expires 10/18/2000**



  
\_\_\_\_\_  
William Larry Wilson

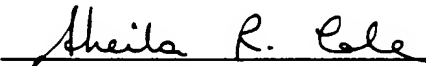
Date: 6/30/2000

United States of America )

State of New Jersey ) ss.:

County of Union )

On this 30<sup>th</sup> day of June, 2000, before  
me personally came, William Larry Wilson to me known to be the individual  
described in and who executed the foregoing instrument, and acknowledged  
execution of the same.

  
\_\_\_\_\_  
Notary Public

**SHEILA R. COLE**  
**A NOTARY PUBLIC OF NEW JERSEY**  
**My Commission Expires 10/18/2000**

Lucent Technologies Inc.  
600 Mountain Avenue (Room 3C-512)  
P. O. Box 636  
Murray Hill, New Jersey 07974-0636